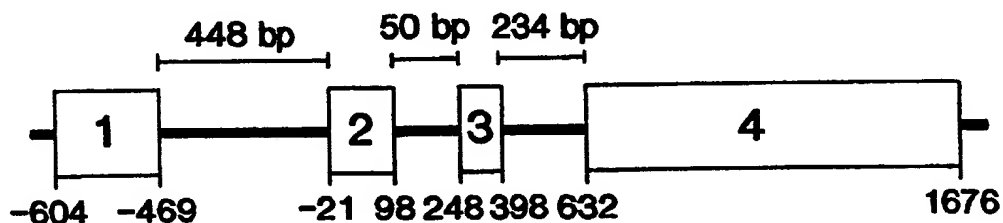
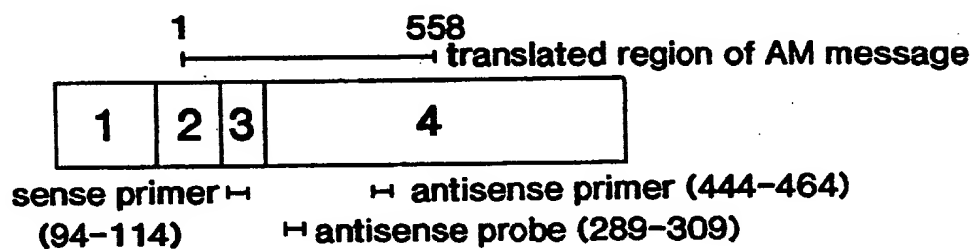


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Gene



Message



Preprohormone

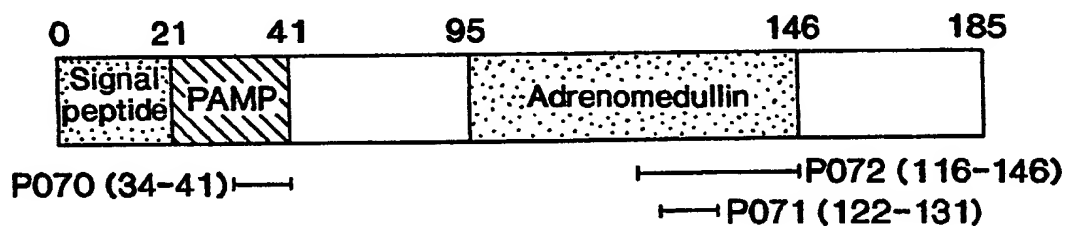


FIG. 1

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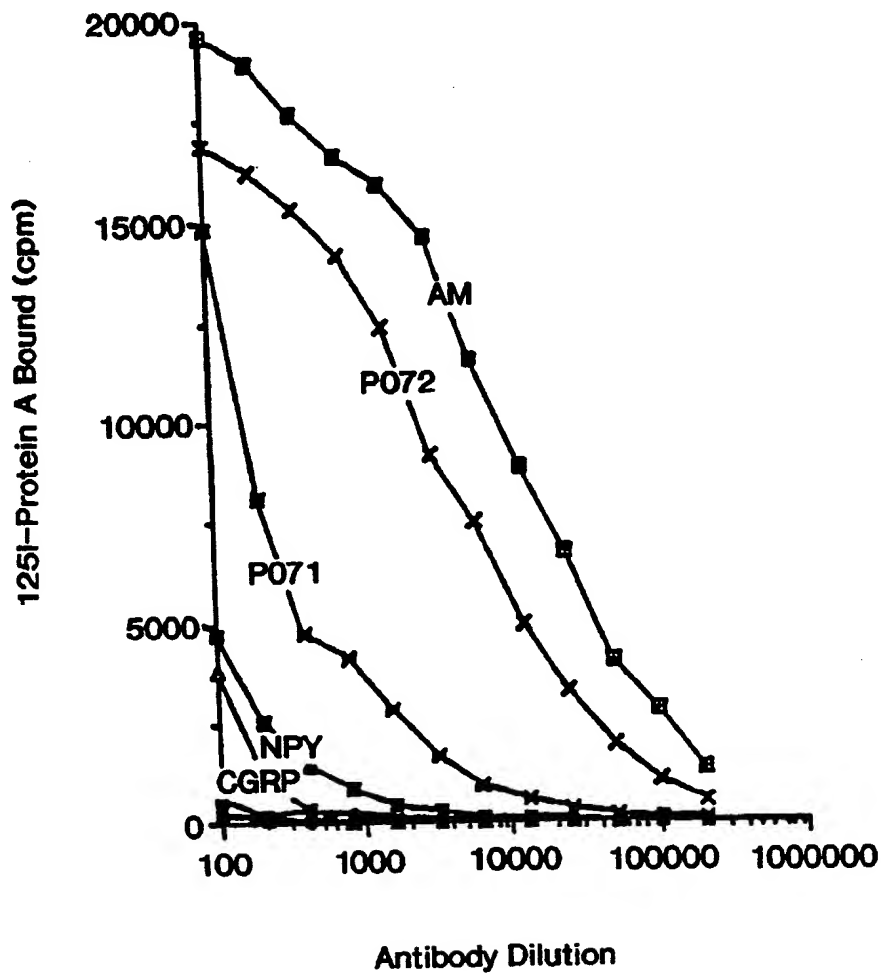


FIG. 2

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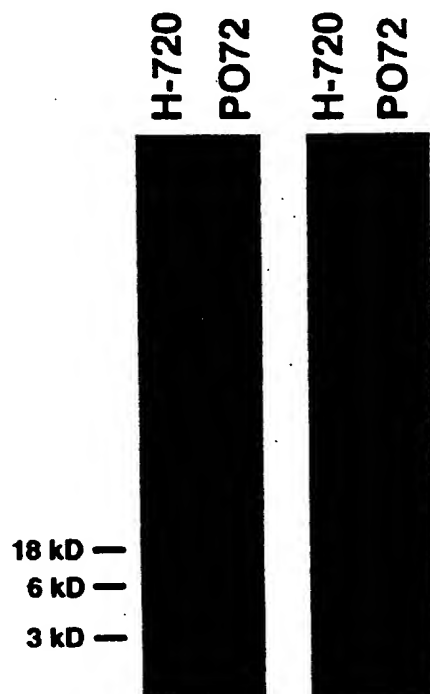


FIG. 3



FIG. 4A



FIG. 5A



FIG. 4B

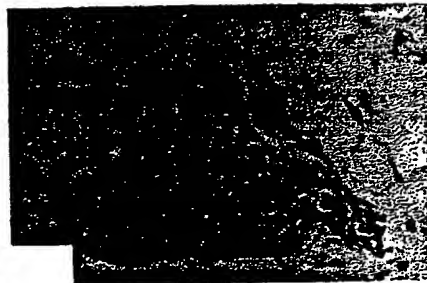


FIG. 5B



FIG. 4C



FIG. 5C

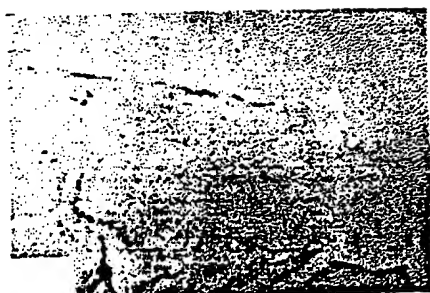


FIG. 4D



FIG. 5D

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FIG. 6A

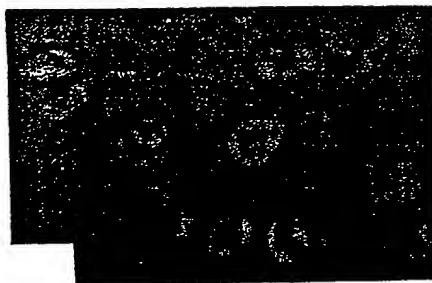


FIG. 6B



FIG. 7A



FIG. 7B

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Adrenal
Lung
H146
H345
H676
H720
H820

410bp -

H₂O

FIG. 8A

- 410bp

FIG. 8B

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FIG. 10A

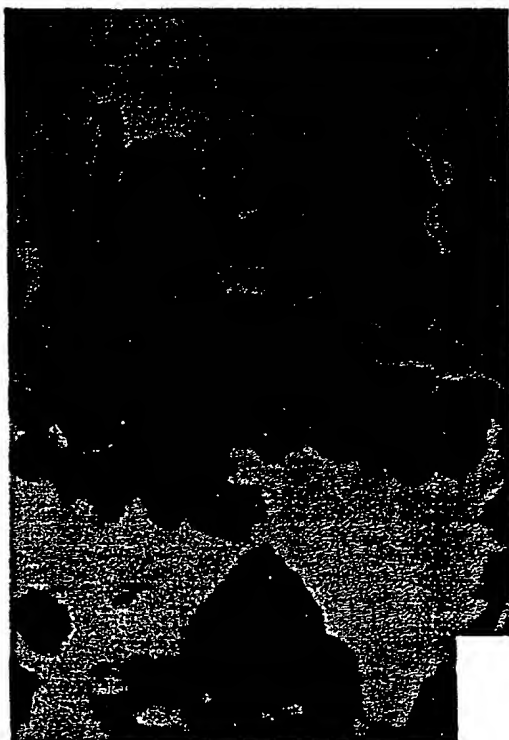


FIG. 10B



FIG. 9A

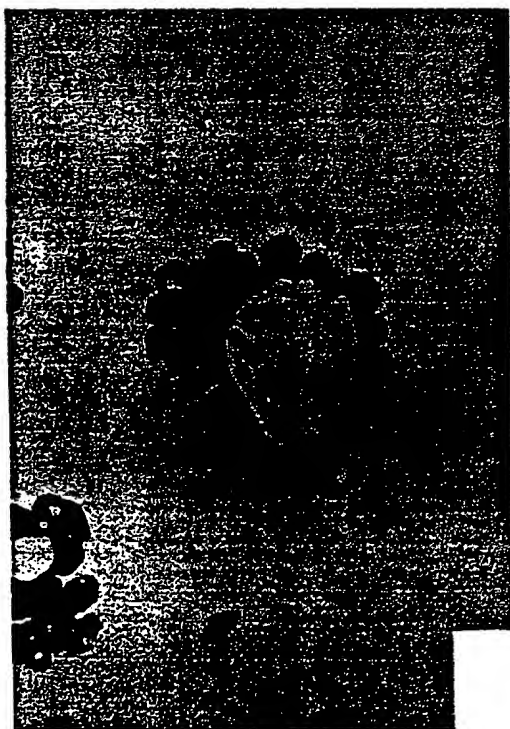
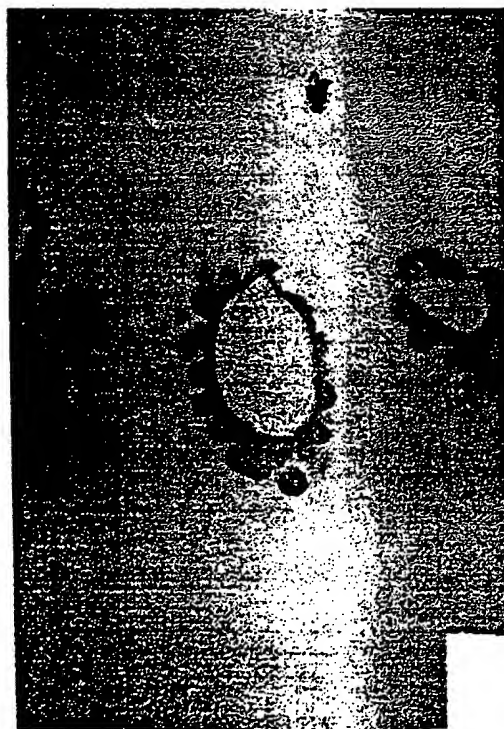


FIG. 9B



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HISTAMINE RELEASE FROM RAT MAST CELLS

Peptide	HR ₅₀ IMI ¹	Rats
	($\bar{x} \pm SD$)	(n)
AM	$7.9 \pm 3.9 \times 10^{-6}$	5
PO71	$> 10^{-3}$	1
PO72	$> 10^{-4}$	1
AM ₁₋₁₂	$> 10^{-4}$	1
PAMP	$4.7 \pm 2.3 \times 10^{-7}$	5
PO70	2.6×10^{-6}	1

<u>Controls</u>		
LHRH	1.7×10^{-4}	2
NalArg	$1.5 \pm 53 \times 10^{-7}$	5

HR₅₀ = molar concentration of peptide required to release 50% of total histamine from rat peritoneal mast cells.

FIG. 11

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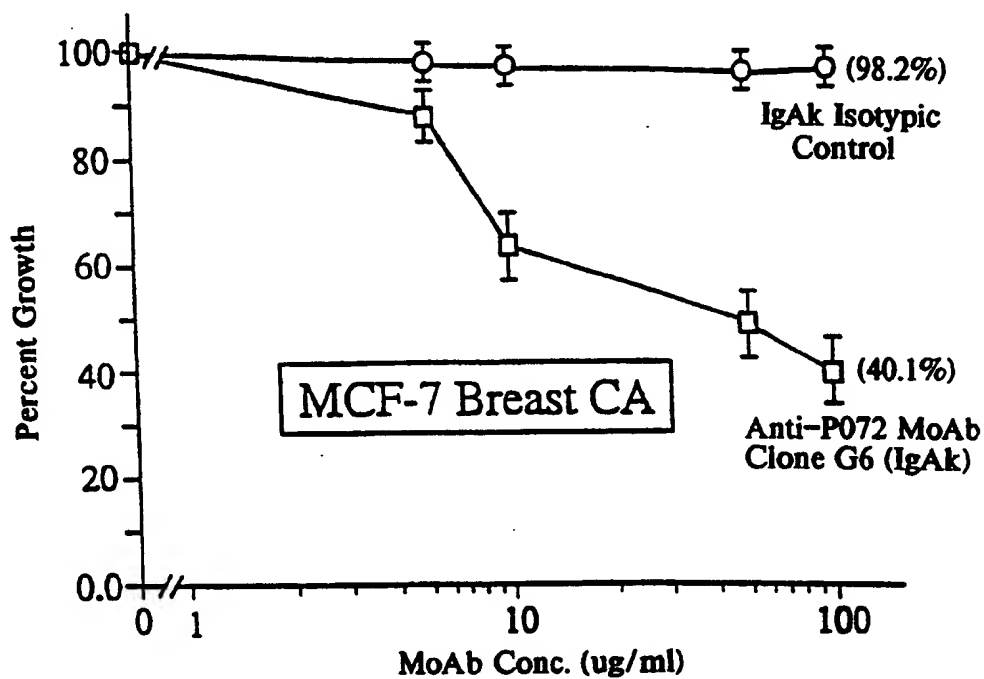


FIG. 12A

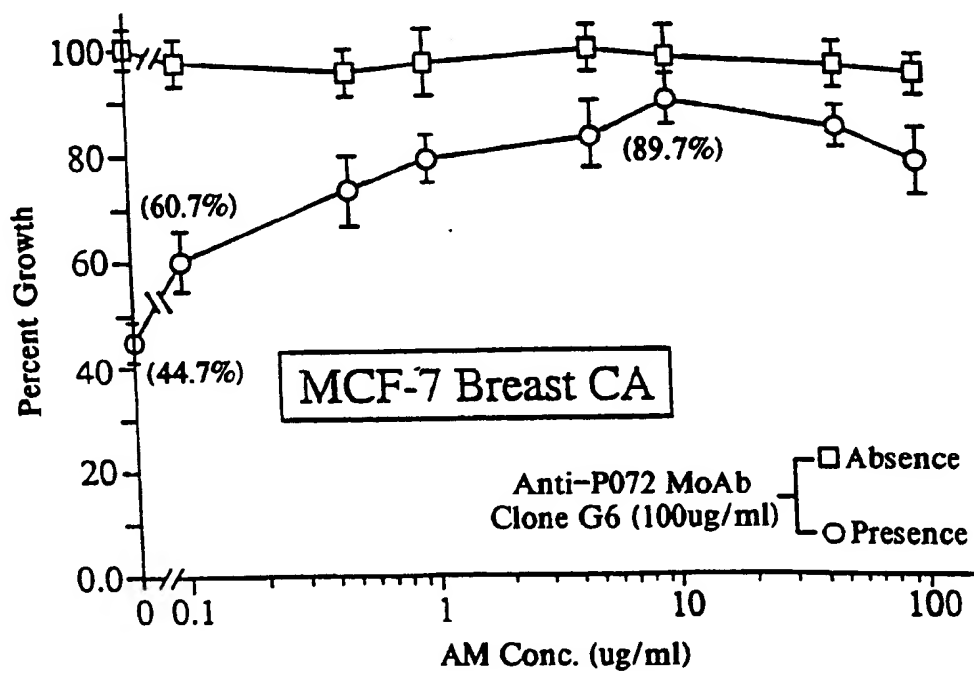


FIG. 12B

Year	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

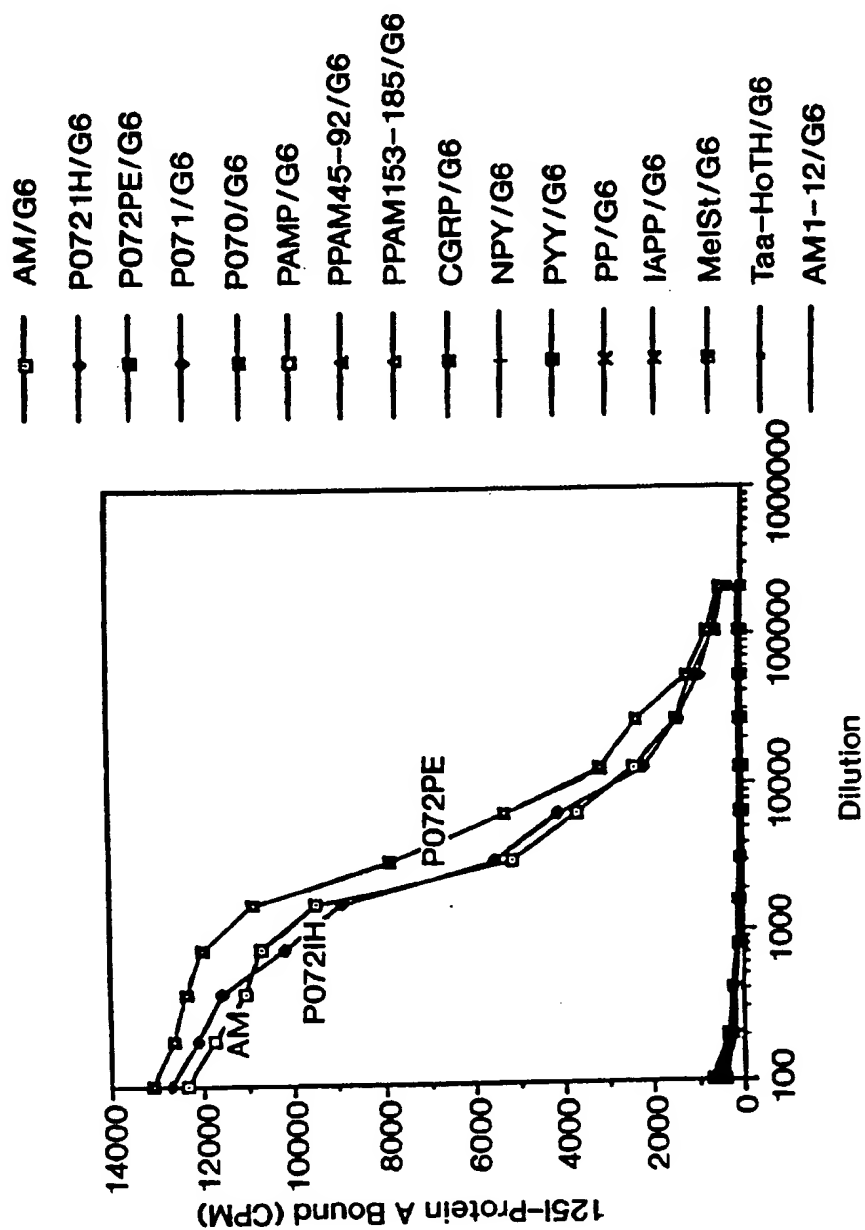


FIG. 13

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FIG. 14A



FIG. 14B



FIG. 14C

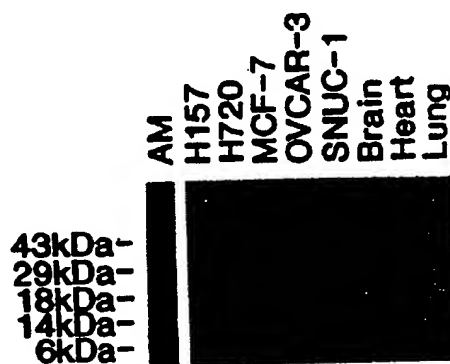


FIG. 14D



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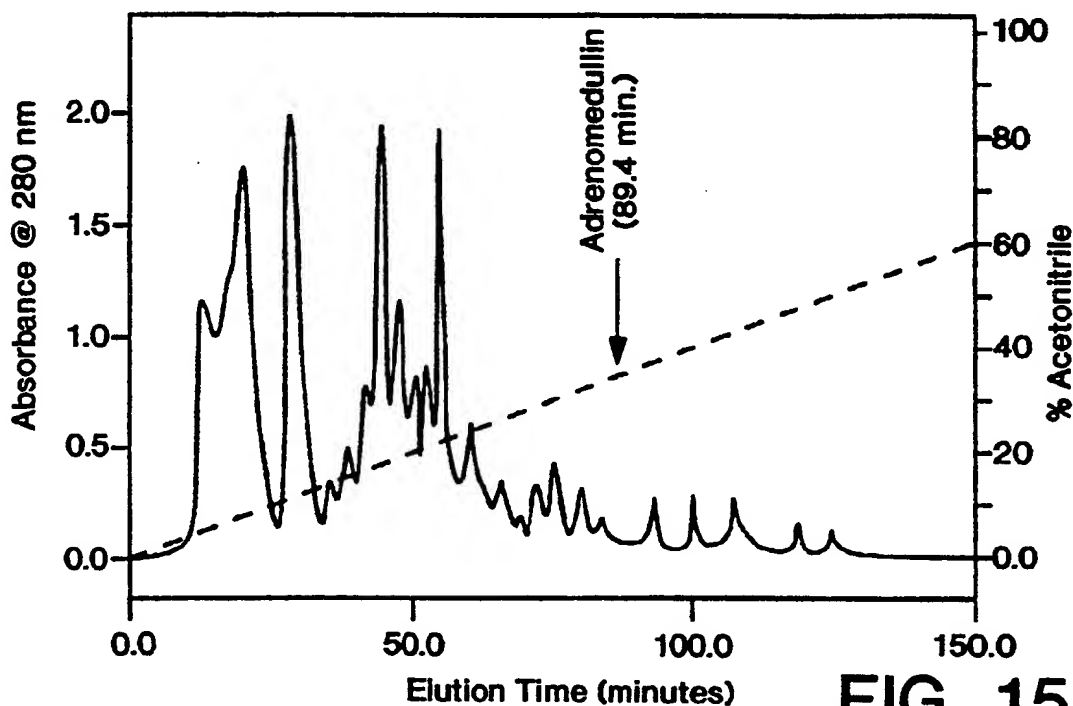


FIG. 15A

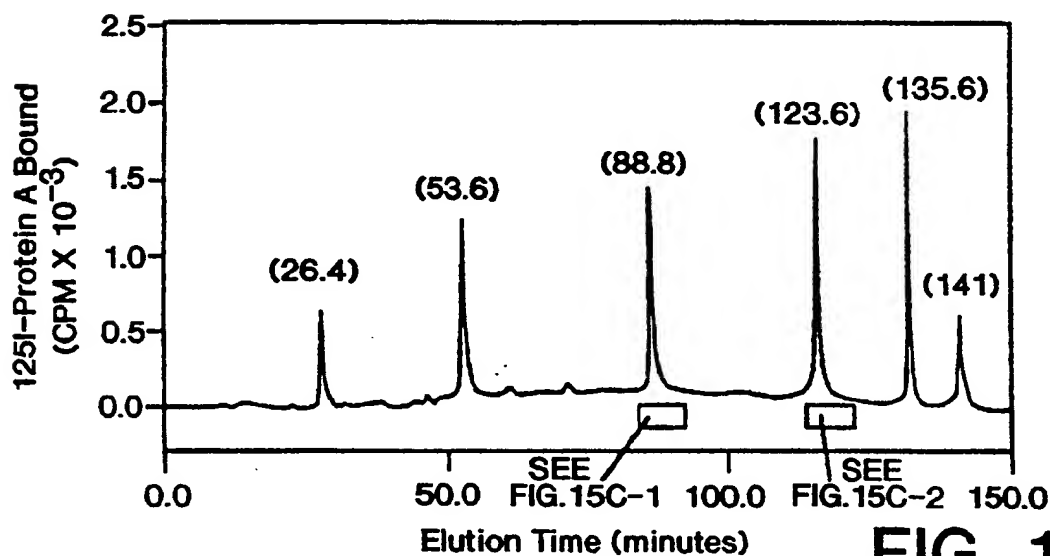


FIG. 15B

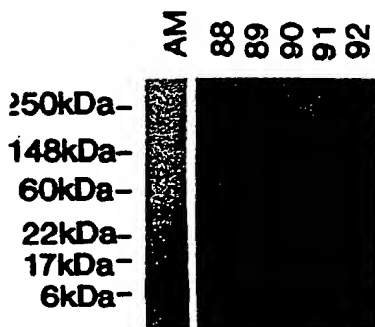


FIG. 15C-1

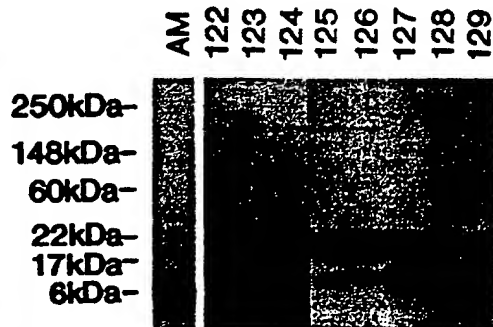


FIG. 15C-2

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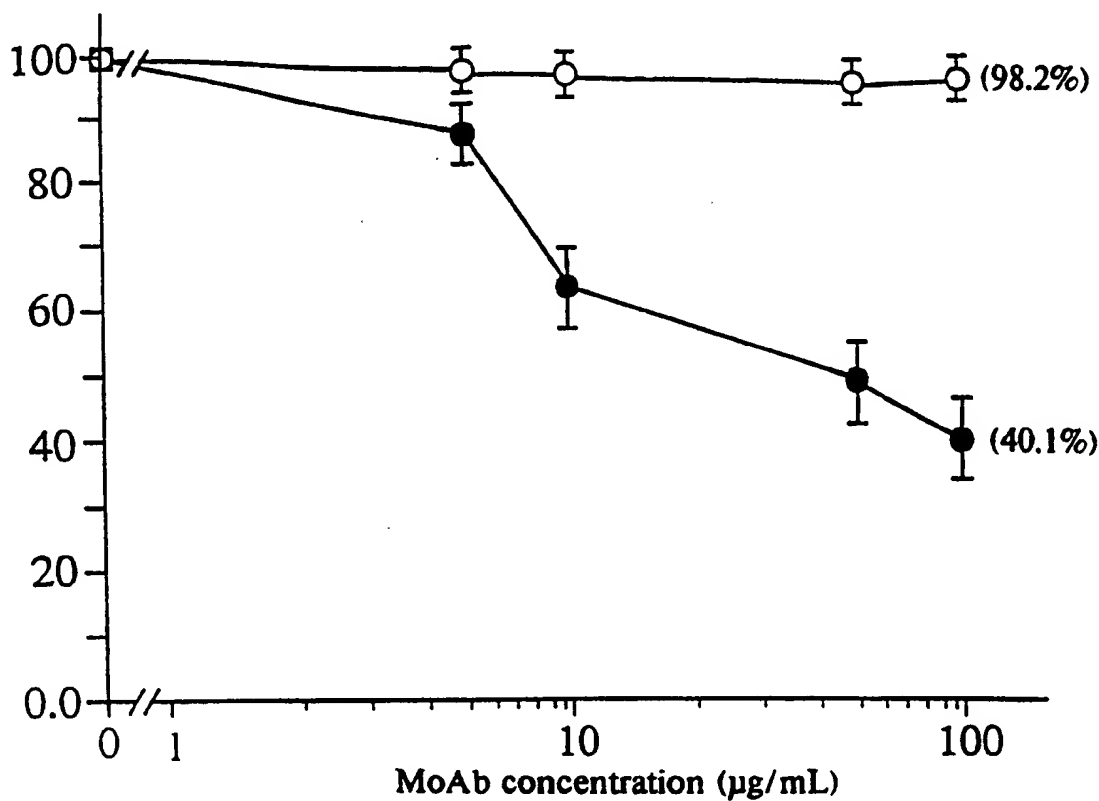


FIG. 16A

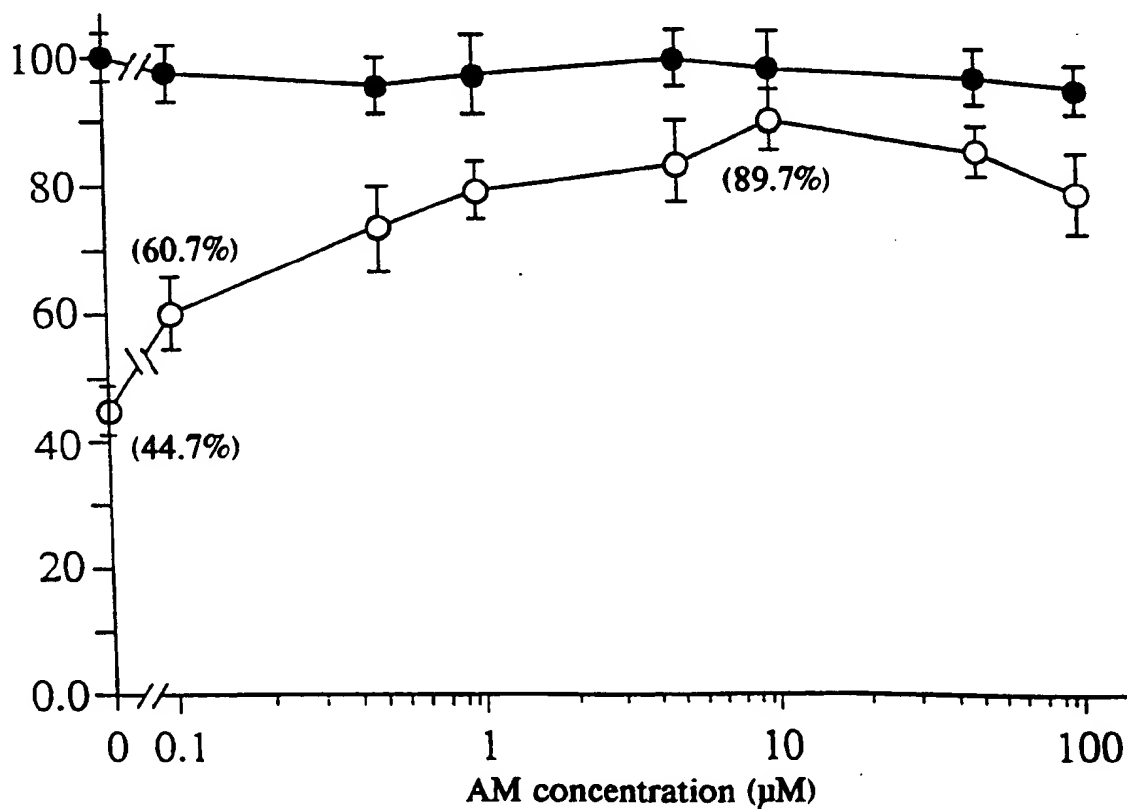


FIG. 16B

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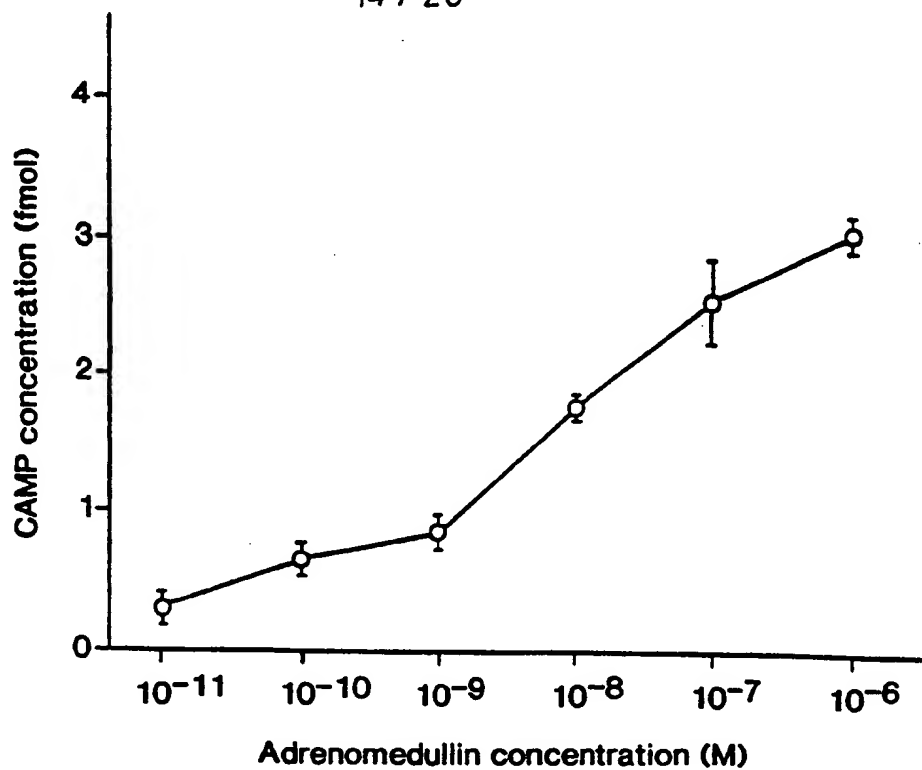


FIG. 16C

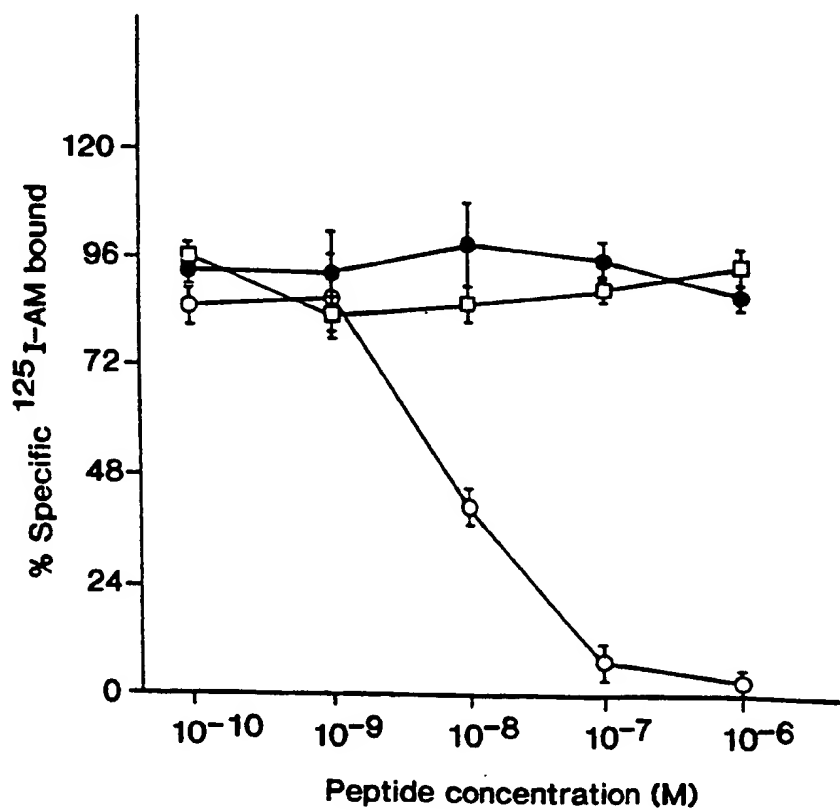


FIG. 16D

FIG. 17A



FIG. 17A

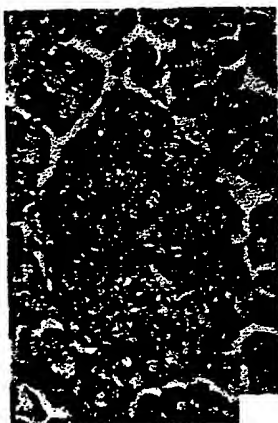


FIG. 17B



FIG. 17C



FIG. 17D

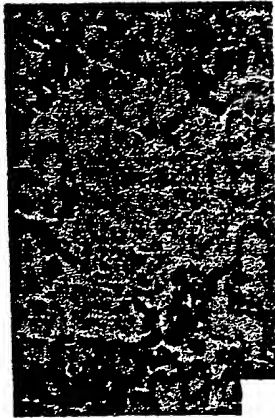


FIG. 17E

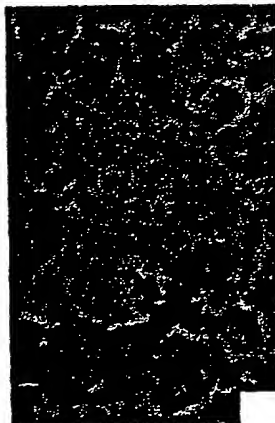


FIG. 17F

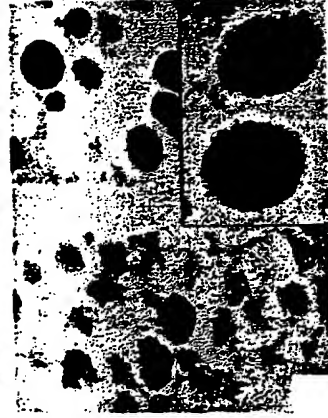


FIG. 17G

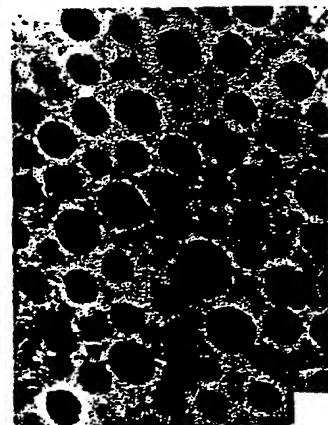


FIG. 17H

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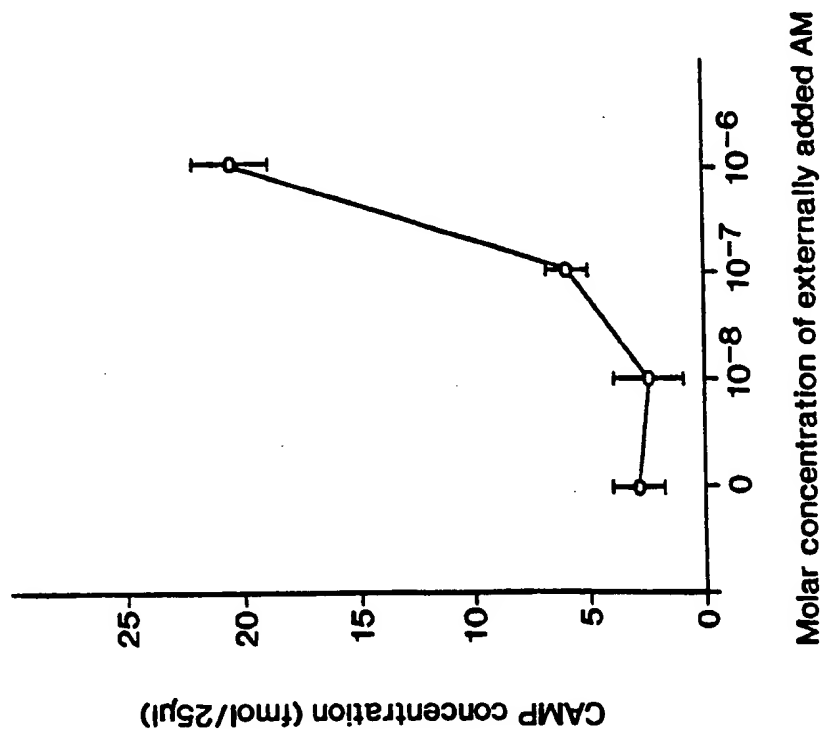


FIG. 18B

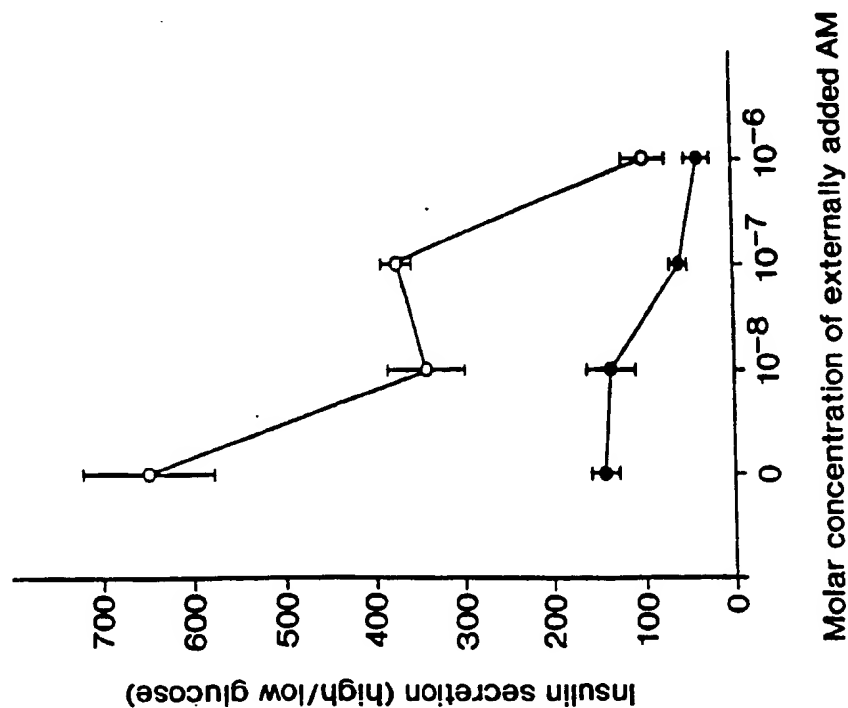


FIG. 18A

2057
N289
RINm
TR4
1777
2055
Adrenal
Pancreas
H2O

FIG. 19A

292 bp -

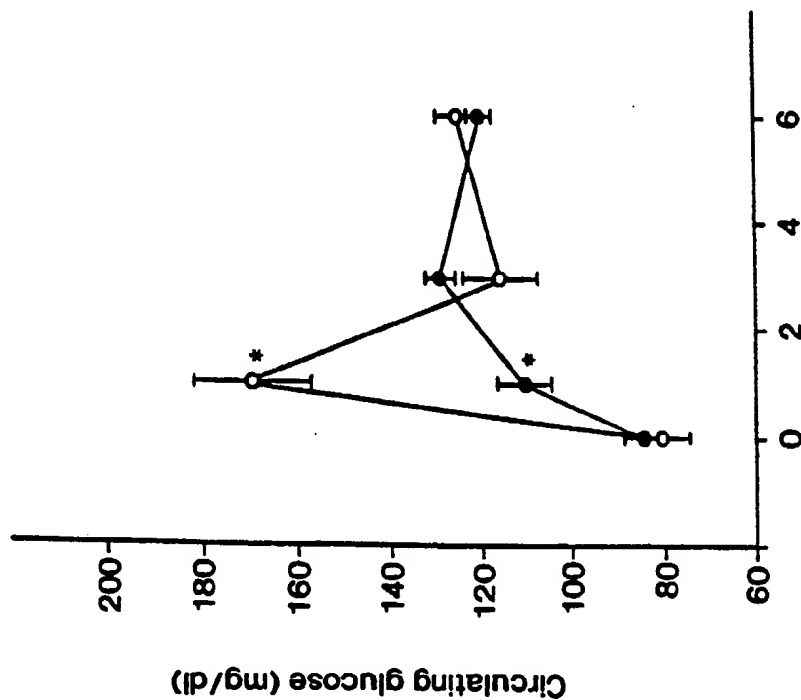


FIG. 19B

292 bp -

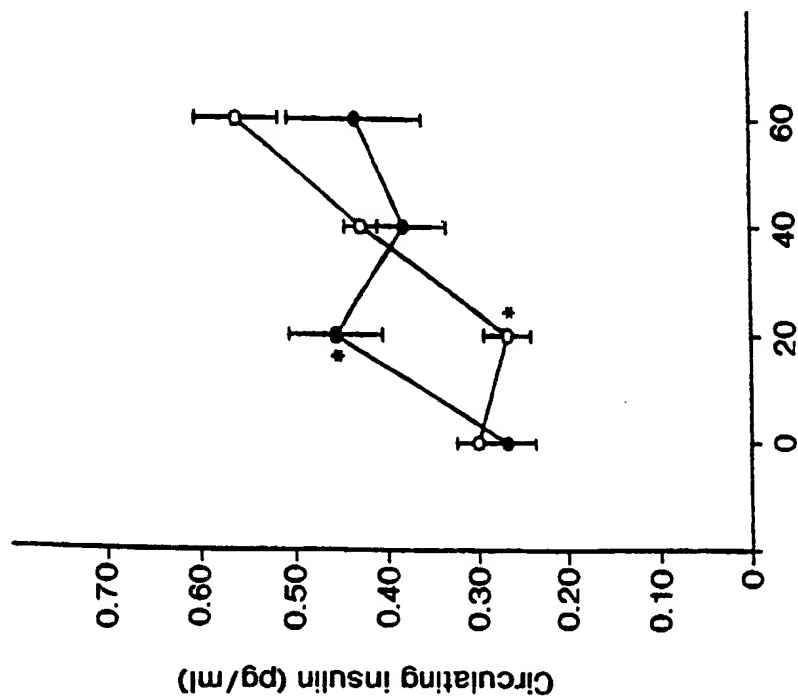


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Hours after feeding

FIG. 20B



Minutes after feeding

FIG. 20A

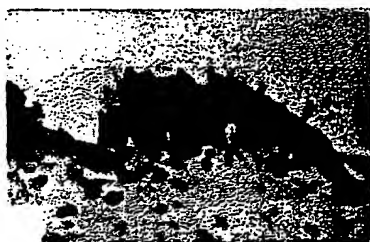


FIG. 21A



FIG. 21B



FIG. 21C



FIG. 21D

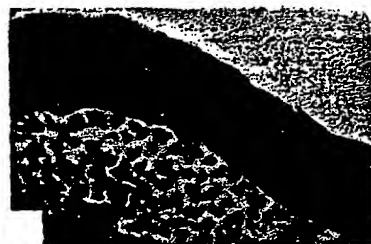


FIG. 21E



FIG. 21F



FIG. 21G



FIG. 21H



FIG. 21I

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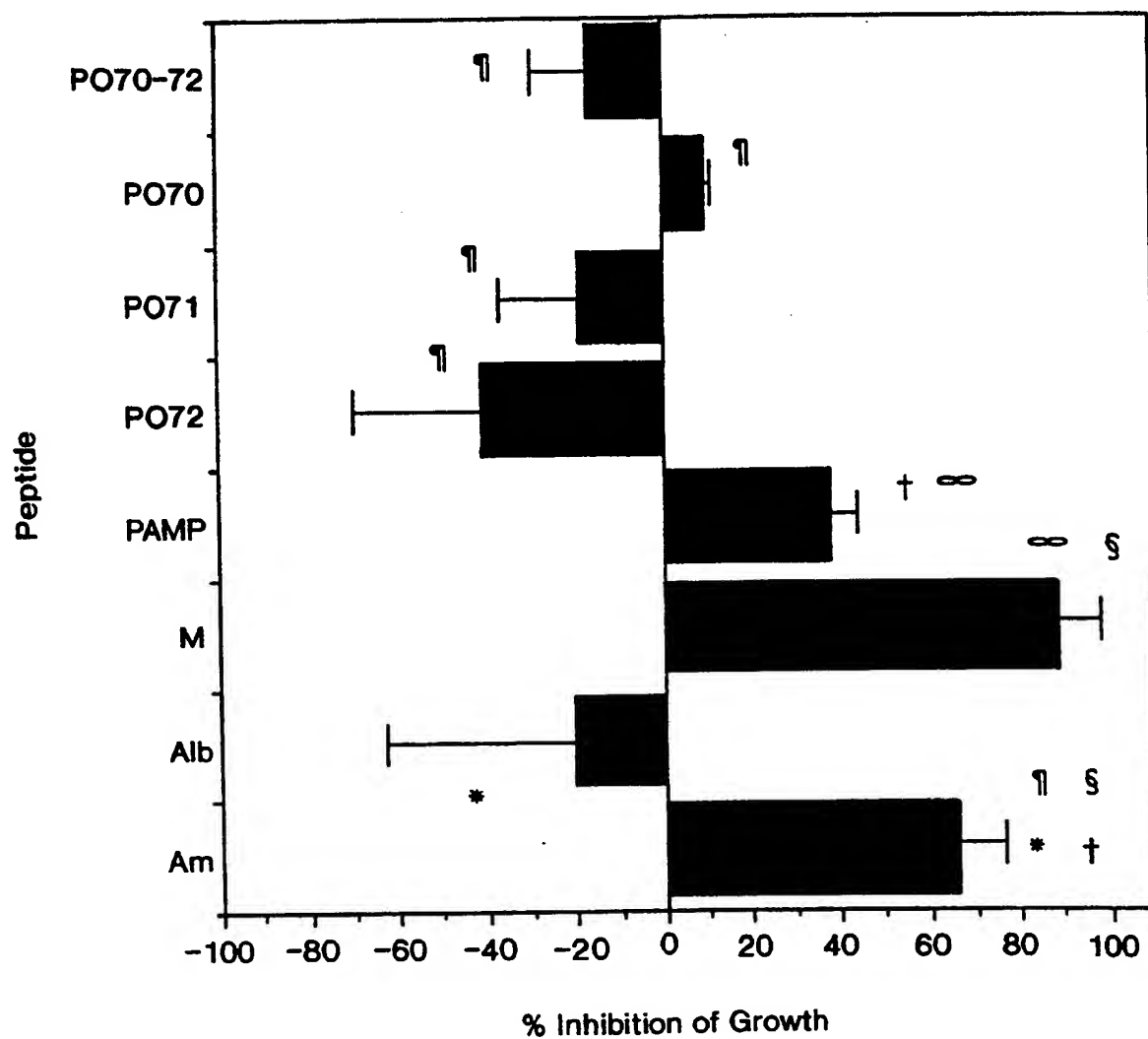


FIG. 22

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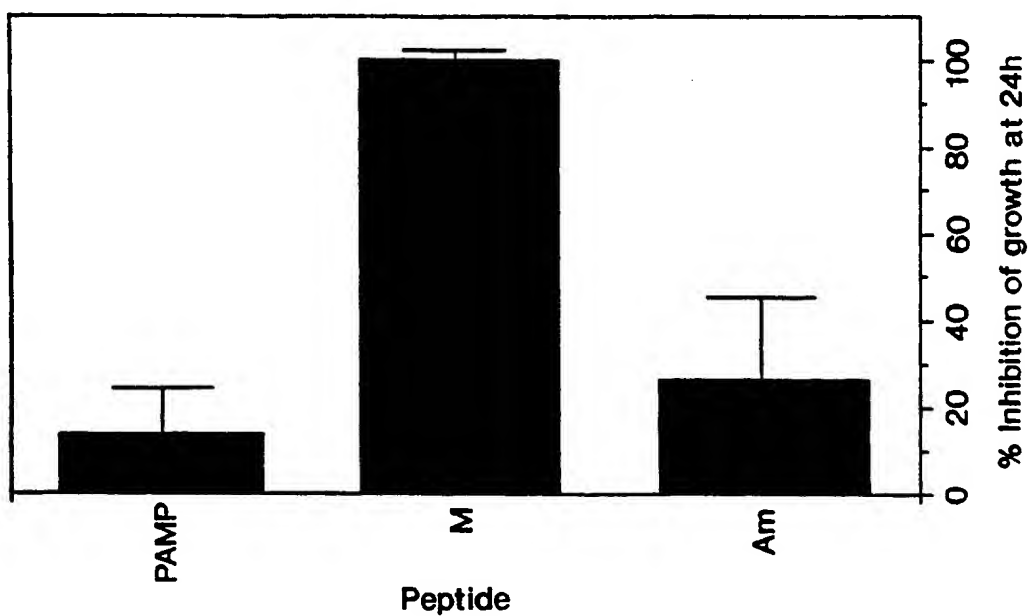


FIG. 23A

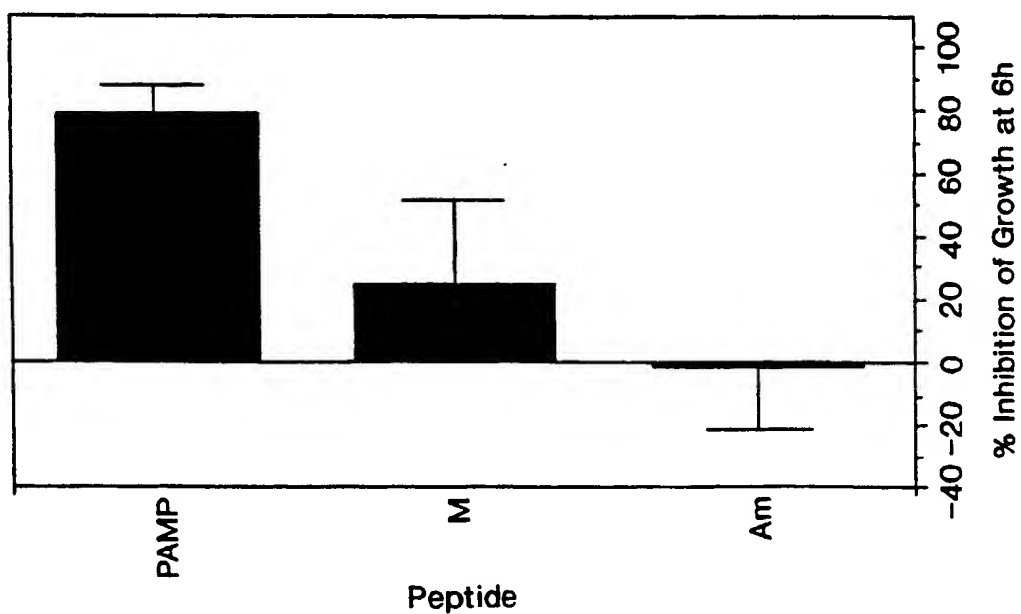


FIG. 23B

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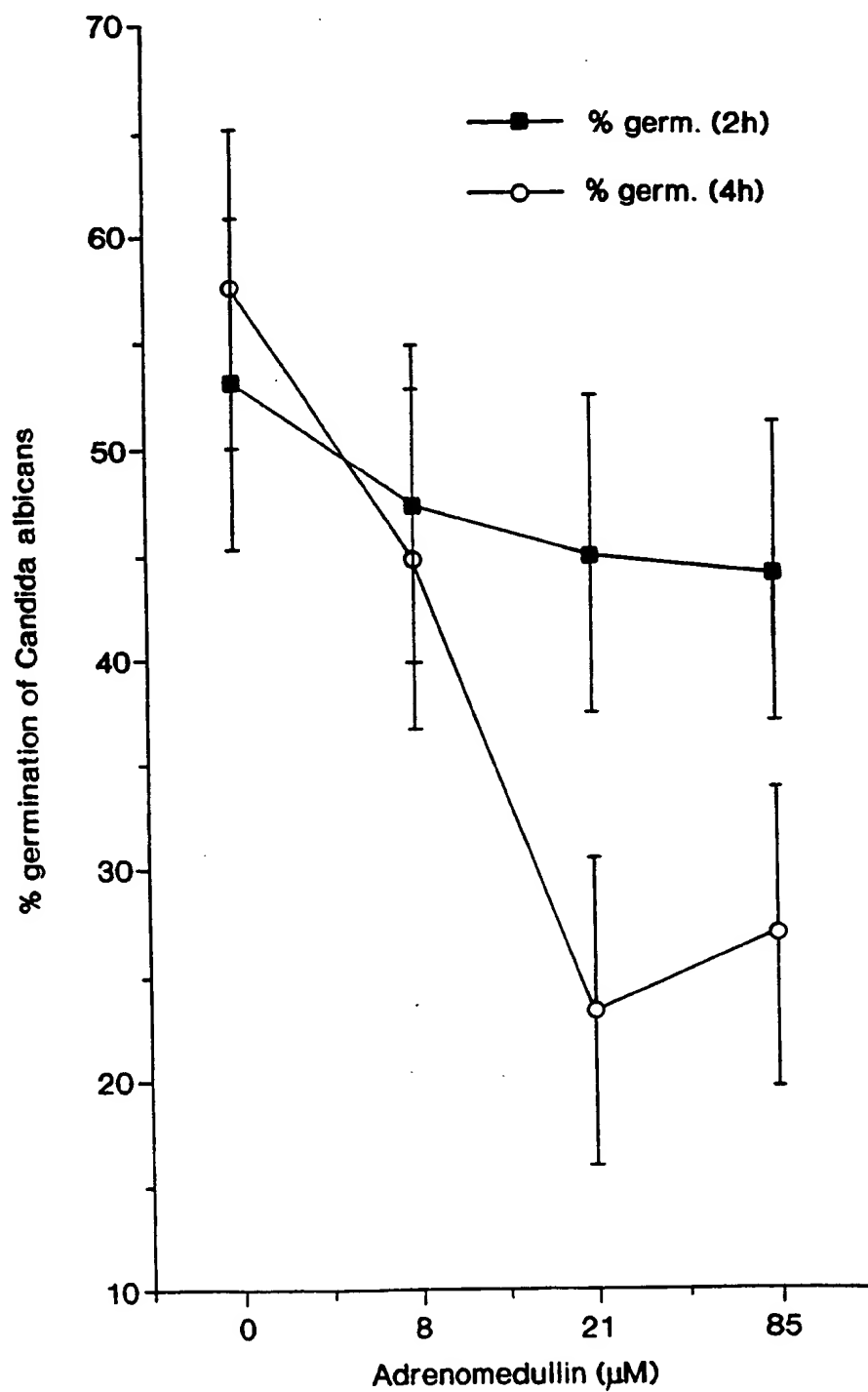
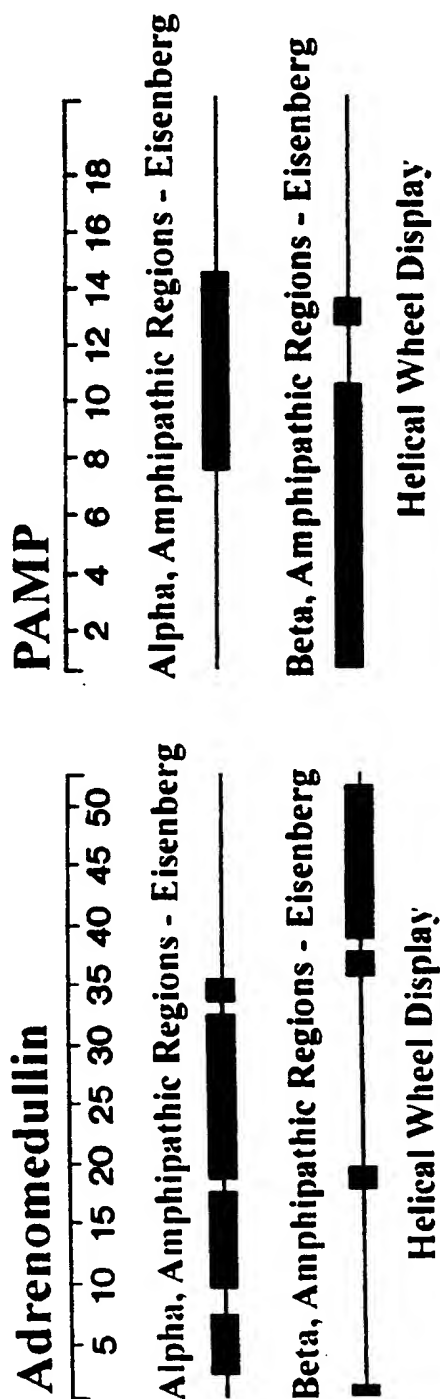


FIG. 24



Helical Wheel Display

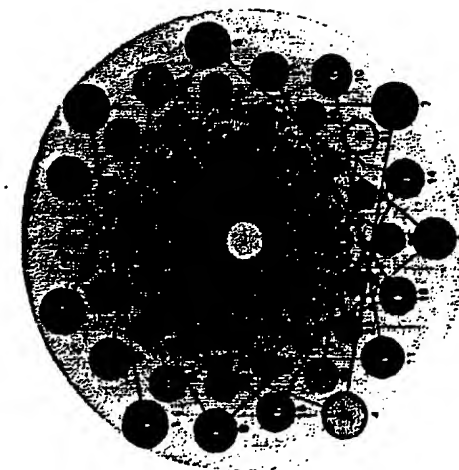


FIG. 25A

Helical Wheel Display

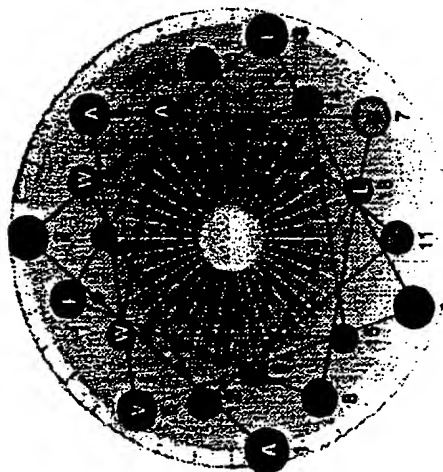


FIG. 25B

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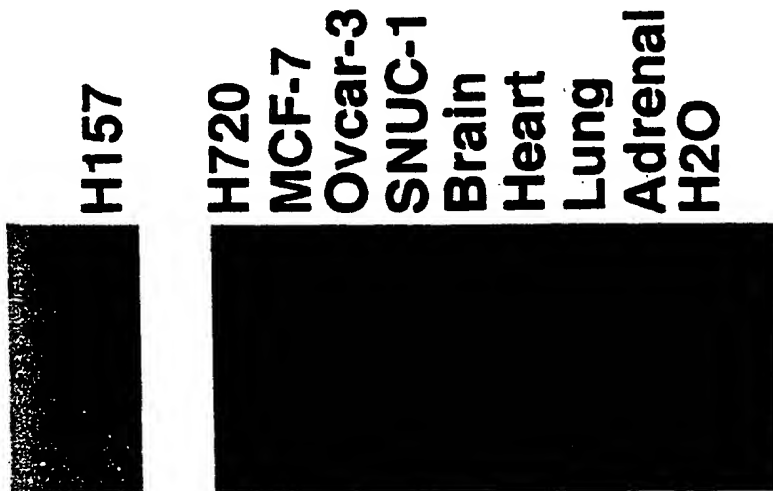


FIG. 26A

- 410 bp

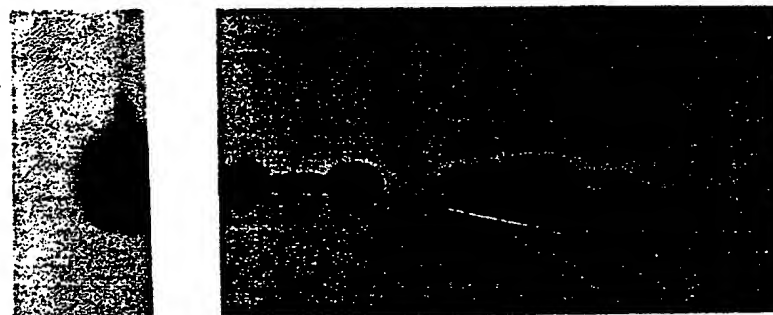


FIG. 26B

- 471 bp

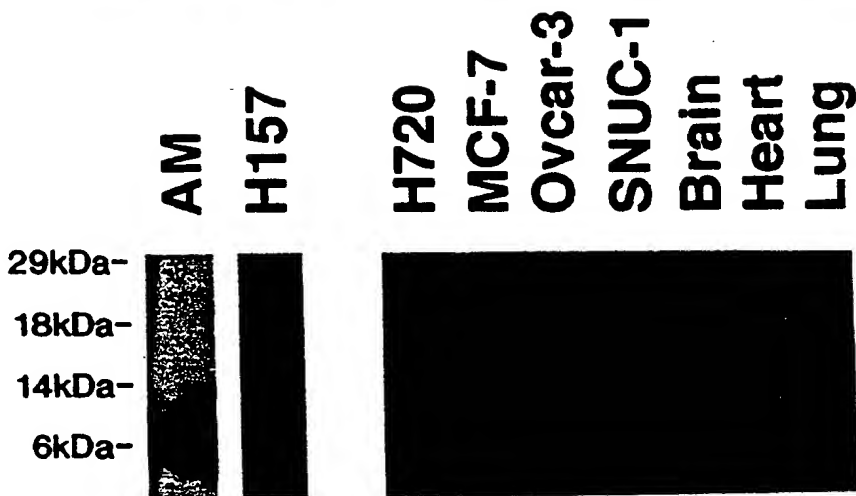


FIG. 26C



FIG. 26D

FIG. 27A

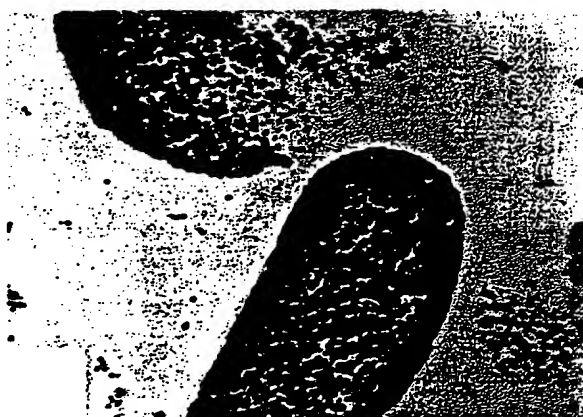


FIG. 27B

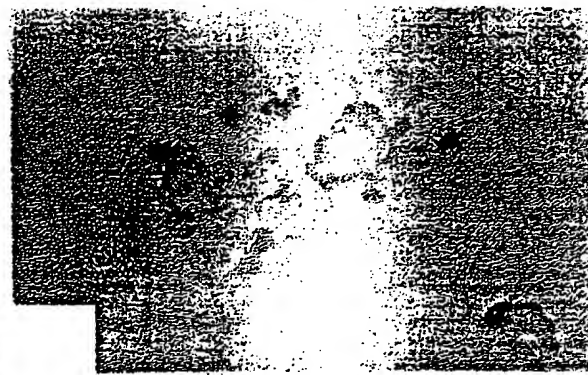


FIG. 27C

FIG. 27D

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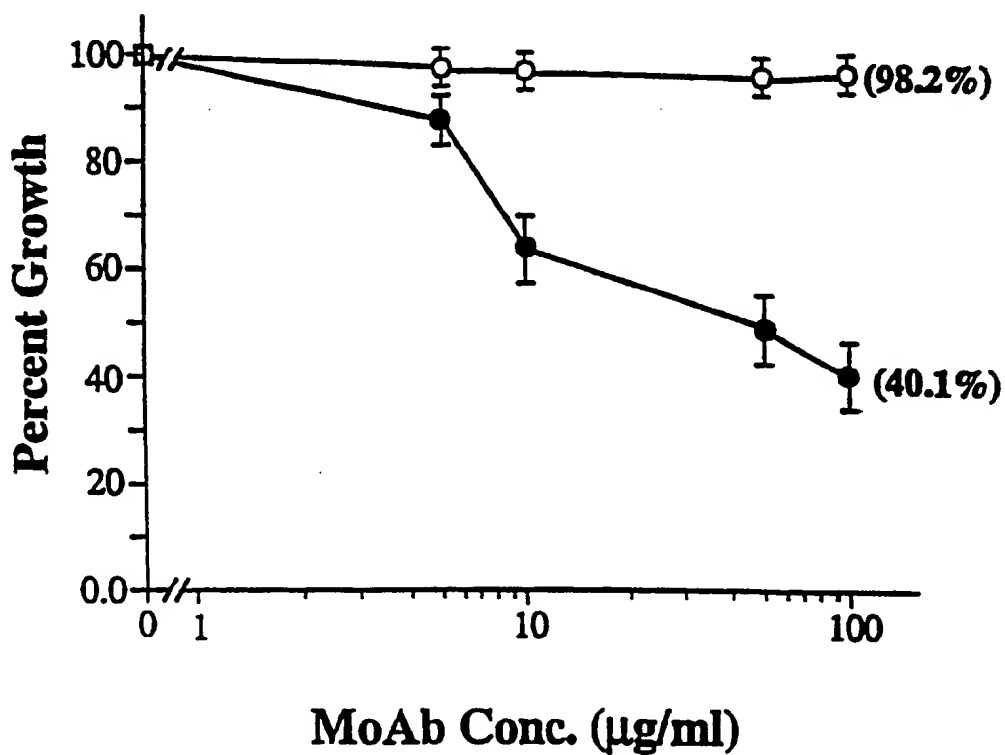


FIG. 28A

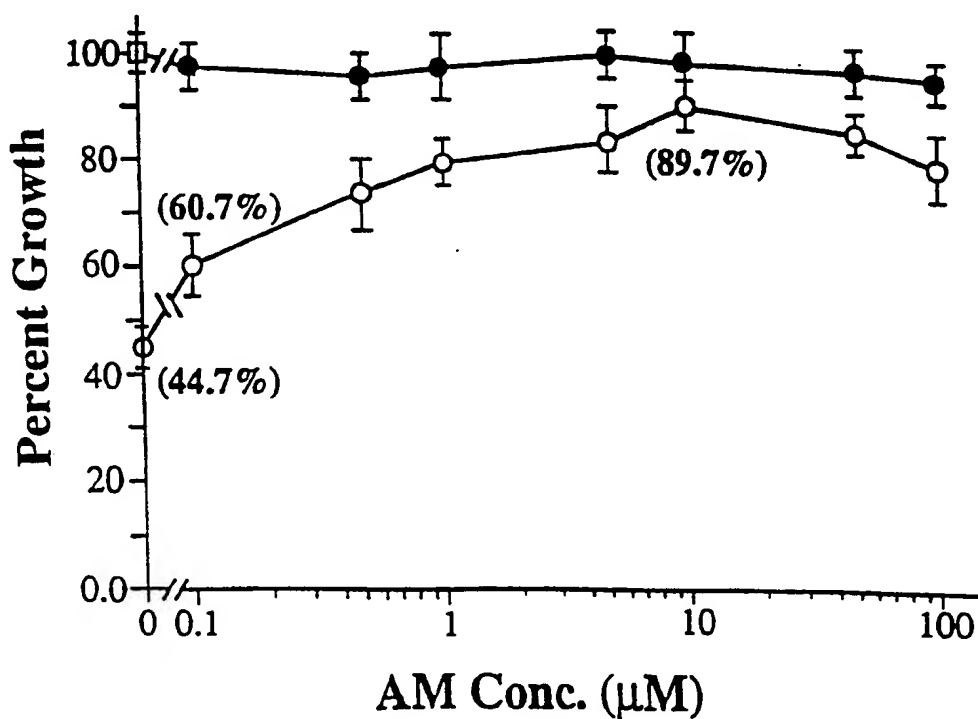


FIG. 28B